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Integrated hybrid adaptive space-time equaliser for interference ...

Integrated hybrid adaptive **space-time** equaliser for **interference rejection** in multipath DS/CDMA systems. [Electronics Letters 35, 533 (1999)] ...

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	measur\$ adj spatial with temporal adj whitened	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:52
L2	0	measur\$ adj spatial and temporal adj whitened	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:52
L3	1	spatial and temporal adj whitened	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:55
L4	0	space adj time adj interference adj rejction	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:55
L5	3	space adj time adj interference adj rejection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:56
L6	13	space adj time adj interference	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 15:57

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	((("6215814") or ("2004014695")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 11:35
L2	2	("20040114695").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 11:41
L3	1	ration adj combin\$ adj space adj time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 11:42
L4	5	ratio adj combin\$ adj space adj time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 11:44
L5	33	spatial adj temporal adj color	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:19
L6	1102	maximum adj ratio adj combin\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:24
L7	1	5 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 11:46
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L9	59955	array and antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:13
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L11	45	spatial with temporal adj color	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:28
L12	2	9 and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:13
L13	0	measure adj spatial with temporal adj color	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:20
L14	2	measur\$ adj spatial with temporal adj color	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:21
L15	5	measur\$ adj spatial and temporal adj color	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:21
L16	12	((MIKKO) near2 (SAILY)).INV.	US-PGPUB; USPAT	OR	OFF	2007/05/10 12:23
L17	1	maximum adj ratio adj combin\$ with space-time adj interference	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:25
L18	1	maximum adj ratio adj combin\$ and space-time adj interference	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/10 12:26

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Patent No.	Patent Title:
<u>5796788</u>	<u>Method and apparatus for interference decorrelation in time and...</u> applied to jointly combat fading, time dispersion, and interference that is correlated in both space and time. These objects are accomplished by, for example, providing an inverse impairment correlation ...the time correlation of impairment to improve the symbol...
<u>5692018</u>	<u>Time-diversity interference canceler with add/subtract/select...</u> An interference canceler comprises a first complex multiplier for multiplying a signal recovered from a quadrature modulated carrier by a first correlation value, and a second complex multiplier for multiplying a delayed version of the recovered signal by a second correlation value. The...
<u>7031411</u>	<u>Methods and apparatus for canceling co-channel interference in a...</u> Methods and apparatus for canceling co-channel interference in a receiving system using spatio-temporal whitening. In some embodiments, a spatio-temporal interference canceling method, and apparatus for carrying out the method are provided which effectively cancel co-channel...
<u>6768913</u>	<u>Method and apparatus for performing beam searching in a radio communication...</u> A radio communication system includes a base station having a directional antenna for generating a plurality of beams. A first set of the beams is used to receive signals which are decoded at the base station. A second set of the beams is used for interrogating a cell to identify beams which...
<u>6694154</u>	<u>Method and apparatus for performing beam searching in a radio communication...</u> A radio communication system includes a base station having a directional antenna for generating a plurality of beams. A first set of the beams is used to receive signals which are decoded at the base station. A second set of the beams is used for interrogating a cell to identify beams which...
<u>6049705</u>	<u>Diversity for mobile terminals</u> Among these techniques are selection diversity, switching selection diversity, fixed combining diversity, and adaptive combining diversity (e.g., maximal ratio combining and interference rejection combining).
<u>6937454</u>	<u>Integrated device providing overcurrent and overvoltage protection and...</u> An electrical component includes a mounting substrate, a common-mode rejection filter mounted to the

substrate, and at least one circuit protection element mounted to or formed by the ...of contacts including filter contacts connected to the common-mode **rejection** filter,...

5920589 **Direct sequence spread spectrum DSP system**

interference rejection of CW signals greater than 1.5 MHz from the center IF frequency.

6172560 **Amplifier with feedforward loops for rejecting non-linear distortion**

an error signal output from a distortion **rejection** loop is subjected to synchronizing detection. ...spurious effects due to such a pilot signal is avoided. The acquisition **time** of each of the loops can be

6377812 **Combined power control and space-time diversity in mobile...**

In a mobile cellular communications system power control and **space-time** diversity are applied in ...and **space-time** diversity apply to networks with fading channels, including networks in which the ...**combining** vectors at base stations are, calculated jointly,...

6785513 **Method and system for clustered wireless networks**

A basestation broadcasts a number of signals at the same frequency and **time**. Each signal comprises a desired signal and multiple **interference** signals. The signals arrive at the nodes as co-channel ...such that the repeated signals collectively cancel out co-channel...

6668030 **Radio communication systems**

possible **interference** component from another mobile station operating at the same frequency in another ...controller determines when the **interference** component (which is non-gaussian) in the received

5991282 **Radio communication system with diversity reception on a time-slot by...**

A communication system base station improves uplink coverage on a **time slot** by **time slot** basis. The coverage is improved by allocating diversity and non-diversity **time-slots** based on received signal quality of an RF link between a mobile station and a base station. The...

6408978 **Non-acoustic self noise canceller for sensor arrays**

reference via digital beamforming to non-acoustic wavenumber **space**. This technique produces an **interference** reference measurement which is sensitive only to vibrations propagating within an array body

7079607 **Multi-user detection method**

A multi-user detection method eliminating **interference** between users transmitting modulated data of symbols o a transmission channel, each transmission channel including at least one propagation path arriving at an array of reception antennas in a direction of arrival. Each user (a)...

6975666 **Interference suppression in CDMA systems**

provides a receiver for a CDMA communications system which employs **interference** subspace **rejection** to tun a substantially null response to **interference** components from selected signals of ...A receiver of the present invention addresses the need for improved...

6223040 **Method and a system in a cellular network**

In a cellular mobile radio system, co-channel radio base stations are provided with a **time** reference signal being a synchronizing signal or a **time** reference from another co-channel radio base station. Each co-channel radio base station is also provided with a radio base station...

5872540 **Digital interference suppression system for radio frequency...**

out all types of concurrent **interference** and/or jamming signals received by a Global Positioning ...adaptive **interference** suppression technique to convert and digitize the analog input signals, and numerically modulate the data to produce effective cancellation of...

6650478 **Optical filter for a window**

An optical filter in the form of a film which can be used in a window to control the amount of absorbed light, reflected light, transmitted light and solar energy rejection. The optical filter contains a unique combination of an interfering Fabry-Perot stack and a massive Fabry-Perot stack.

6954480 **Method and apparatus for improving received signal quality in an impulse...**

a number of pulses that are positioned in **time** for conveying an information signal. An impulse ...measures **interference** samples at **interference** sample times that do not coincide with the pulse arrival times. The

interference sample times are varied and the...

- 6166689 **Adaptive beamformer with beam mainlobe maintenance**
An adaptive beamformer and signal processor for sonar and other signal receptor arrays, in which beamforming accomplished by correlation feedback loops providing matched weighting across the array. To constrain the adaptive beamformer thus comprised against cancellation of useful signals from...
- 6801160 **Dynamic multi-beam antenna using dielectrically tunable phase shifters**
An electronic scanning antenna system configured for beam scanning operation includes a plurality of antenna modules, each respective antenna module including: (a) a plurality of antenna elements arranged in a plurality of element sets, the plurality of element sets being arranged in a plurality...
- 5502688 **Feedforward neural network system for the detection and characterization of...**
The present invention provides a method and system for characterizing the sounds of ocean captured by passive sonar listening devices. The present invention accomplishes this by first generating a spectrogram from the received sonar signal. The spectrogram is characterized in terms of textural...
- 6243415 **Process of multisensor equalization allowing multisensor reception in the...**
useful signal at the output of the spatial filtering and ensuring rejection of the interference.
- 6331837 **Spatial interferometry multiplexing in wireless communications**
summed to cancel interference and separate the signals. Beamforming operations in an antenna array provide rejection of intersymbol interference and reduce the number of antennas needed to cancel interference. A spatial demultiplexing technique using multicarrier...
- 6914539 **System and method for a low rate, in-band broadcast communication for medical...**
A medical telemetry system includes a central station having a central station receiver and a central station transmitter that both operate on a frequency bandwidth having frequency multiplexed transmission channels and guard bands. A guard band separates each of the...
- 5646344 **Device for determining a pulsating air mass flow in an internal combustion...**
The device determines the pulsating air mass flow in an internal combustion engine. The device includes a sensor producing an output signal to be evaluated to determine a pulsating air mass flow and a filter device for filtering the output signal to produce a filtered signal in which the signal...
- 6721293 **Unsupervised adaptive chip separation filter for CDMA terminal**
user signal. The receiver also includes combining circuitry, for performing chip waveform filtering and maximal ratio combining, to produce mutually correlated chip estimates of the received signals. ...estimating circuitry, coupled to the combining circuitry, for estimating...
- 6137843 **Methods and apparatus for canceling adjacent channel signals in digital...**
channel interference rejection....channel fashion, exemplary cancelling demodulators provide superior adjacent channel interference rejection. The cancelling demodulation is conducted in either serial or parallel fashion. In exemplary
- 6529545 **Rake receiver**
delay estimator further comprises: a channel estimator, an interference estimator for generating an interference signal, a weighting coefficient part for providing each antenna branch with weighting coefficients maximizing the Signal-to-Interference-and-Noise Ratio, a...
- 6470285 **Method and apparatus for multi-parameter digital pulse pileup rejection**
the sensed pulses into discrete ADC values over a plurality of time slices. The digitized pulses are ...pulse and marks its first time slice. The processor includes accumulators that calculate parameters
- 6215814 **RAKE receiver**
Interference-and-Noise Ratio for each antenna branch; a multiplier for multiplying a pilot part, despread ...branch summer for combining the despread pilot parts, received via the separate antenna branches and multiplied by the weighting coefficient, to one pilot signal; an antenna...
- 6785529 **System and method for I-Q mismatch compensation in a low IF or zero IF receiver**
A compensation circuit to correct for mismatch in a quadrature receiver comprises first and second mixers to

receive a radio frequency (RF) modulated signal. One mixer receives an I local oscillator signal while the second mixer receives a Q local oscillator signal wherein the I and Q local...

- 6823022 **Method for mitigating effects of interference in impulse radio...**
A method for mitigating **interference** in impulse radio communication conveying a message from a ...period of th **interference**. The communication may convey a message from a proximate transmitter to a ...system, the methc comprises the steps of: (a) providing **interference**...
- 6774859 **Ultra wideband antenna having frequency selectivity**
An electromagnetic antenna apparatus exhibits a generally continuous signal response between a first frequency and a second frequency, and further exhibits a deviation from the signal response in a frequency region centerec substantially at a selected frequency between the first frequency and the...
- 6240099 **Multi-user code division multiple access receiver**
A receiver and method for receiving a code-division multiple-access (CDMA) signal **combining** symbol values spread by a plurality of spreading codes, which method comprises the steps of: (a) converting the CDMA signal t a baseband signal; (b) recognizing symbol boundaries in every multipath...
- 7031671 **Multi-user detection method**
Multi-user detection method with elimination of **interference** between users, each user transmitting ...the differer paths (i) of the said user (k) and **combining** the said filtered signals by means of a ...said first plurality of coefficients; (c) a step of eliminating...
- 6125109 **Delay combiner system for CDMA repeaters and low noise amplifiers**
Signal delay and **combining** techniques are used with multipath signals to provide signal diversity gain within CDMA over-the-air repeater and low noise amplifier systems. An incoming signal from a ...amplifier, and also protect the base station from out-of-band signal **interference**. A...
- 6907272 **Array receiver with subarray selection**
An array antenna system comprising an array of antenna elements and a receiver which uses a subset of the signals from the antenna elements, the selection of the subset of signals which should be used for a particular user is made on the basis of measurements of potential performance...
- 6965638 **Increasing performance in modems in presence of noise**
A digital communications system with a built-in apparatus for improving receive path performance in the presenc of noise. An analog datastream is provided to a hardware receive filter that rejects signals lying outside a frequency spectrum of interest, while a hardware equalizer...
- 6535289 **System and method for optical heterodyne detection of an optical signal**
An embodiment of the optical heterodyne detection system includes an optical **combining** unit, an ...the input signal, an optical **combining** unit, and a photodetector.
- 5838675 **Channelized receiver-front-end protection circuit which demultiplexes...**
effects of **interference** signals within the bandwidth of received signals is disclosed. The channelized ...components to produce a plurality of conditioned signal components minimally affected by **interference** ...minimum amount of **interference**. Preferably, the channelized...
- 5353301 **Method and apparatus for combining multipath spread-spectrum signals**
A method and apparatus for **combining** multipath spread-spectrum signals are provided. The multipath **combining** is accomplished by detecting an envelope of an input differential phase shift keyed signal communicated over a communication channel. Subsequently, a replica of a multipath...
- 6784831 **Method and apparatus for GPS signal receiving that employs a...**
that provide for **interference** cancellation, multipath **rejection** and improved signal reception....plurality of mixers (which correspond to the array of antenna elements) and a **combining** node convert
- 6983280 **Automated processing of appropriateness determination of content for search...**
A method and system for improving the efficiency of a database processing system for evaluating candidate data items representing search listings that are submitted for inclusion into a search engine database. Candidate search listings are automatically assessed for quality, style,...

- 6049302 **Pulsed doppler radar system with small intermediate frequency filters**
track a target in the presence of clutter. A pulse repetition frequency **space** is determined that ...directed to choose a pulse repetition frequency from the pulse repetition frequency **space** to use in
- 7075523 **Data acquisition from capacitive touch pad**
settling **time** and low sensitivity to the noise.
- 5867329 **Multiple-pass reflection filter**
An optical filter that uses multiple reflections to provide spectral bandpass filtering of ultraviolet, visible and infrared radiation with a very high transmission of wavelengths within a selected passband coupled with exceptional off-band rejection. The reflection filter uses dielectric-coated...
- 6574235 **Methods of receiving co-channel signals by channel separation and successive...**
A method for receiving a plurality of communications from a respective plurality of transmitters using a common carrier frequency includes receiving a plurality of information signals on a common carrier frequency corresponding to the plurality of communications from the plurality of...
- 6304618 **Methods and systems for reducing co-channel interference using...**
A plurality of timings are estimated for a received signal wherein the plurality of timings correspond to a plurality of transmitted signals. The received signal is then sampled in accordance with the plurality of timings, to produce a plurality of sample streams from the received signal. Channel...
- 5912641 **Indoor satellite cellular repeater system**
receive antenna, and thus provides system selectivity so as to minimize **interference** from and into
- 6356771 **Radio communications system with adaptive polarization**
hand circular antennas and polarization and which also measures **interference** levels on different
- 7076168 **Method and apparatus for using multicarrier interferometry to enhance optical...**
A redundantly modulated multicarrier protocol known as Carrier **Interference** Multiple Access (CIMA) is used in an optical-fiber network having wireless links at network nodes. CIMA is a protocol that can be used to create wireless protocols (such as TDMA and CDMA) having enhanced capacity...
- 6717992 **Method and apparatus for receiving a plurality of time spaced signals**
A method and system for receiving **time** spaced signals transmitted in accordance with a **time** layout is provided. The **time** spaced signals may be pulses or bursts. The **time** spaced signals convey at least one intelligence signal. The **time** spaced signals are received...
- 6483461 **Apparatus and method for locating objects in a three-dimensional space**
A system for locating of objects in a three-dimensional **space** comprises: (a) an impulse radio network including at least three reference impulse radio units and at least one mobile position indicating apparatus; position information relating the impulse radio units is recorded by at least...
- 5414776 **Adaptive proportional gain audio mixing system**
An improved audio mixing system that does not instantaneously switch a microphone from the attenuated level to the unattenuated level in response to level changes on the microphone is disclosed. The system is not limited to one type of microphone and does not depend on separate sensing...
- 5521759 **Optical filters for suppressing unwanted reflections**
interference filter. The first series of layers is arranged to suppress reflections over a broad
- 6075597 **Method for coupling narrow-band, Fabry-Perot, etalon-type interference...**
narrow-band, Fabry-Perot, etalon-type, **interference** filter, that the convergent beam of light from the telescope passes through the **interference** filter at a high focal ratio, relative to the telescope's
- 6895258 **Space division multiple access strategy for data service**
Disclosed are systems and methods which select multiple communication beams for simultaneous use such that potential scatters (e.g. reflectors) are not illuminated by simultaneous transmissions. Preferred embodiments of the present invention provide for maximizing aggregate throughput by...
- 6324159 **Method and apparatus for code division multiple access communication with...**

properties. The result is a complex signal with time-aligned PN codes.

- 7079480 **Enhancing security and efficiency of wireless communications through...**
By embedding as a Physical Layer (PHY) AppliquÃ© patterns (time, frequency, tone multiplexed, ...algorithm to maximize the signal-to-interference-and-noise ratio (SINR) attainable by multielement arrays over very small time-bandwidth products, differentiation and detection...
- 6760387 **Impulse radio receiver and method for finding angular offset of an impulse...**
antennae are measured to determine the time difference of arrival of one such signal received by one antenna compared to that of the other antenna: Time differential is measured by autocorrelation of the ...thus providing real time position information.
- 5969662 **SAR radar system**
A synthetic aperture radar system (SAR) has a wide antenna beam. By using a Local Backprojection SAR Processor the requirment for computational power becomes practical. The SAR radar system is arranged to collect signal amplitudes over segments of the vehicle track, called subapertures, which are...
- 6686879 **Method and apparatus for transmitting and receiving signals having a carrier...**
provides unprecedented bandwidth efficiency and enables substantial improvements in interference rejection, power efficiency, and system versatility. The carrier interferometry architecture also
- 6445692 **Blind adaptive algorithms for optimal minimum variance CDMA receivers**
improved each time the algorithm is run.
- 5485485 **Radio frequency broadcasting systems and methods using two low-cost...**
The methods and systems for reducing multipath fading and outage from blockage in a radio broadcasting syster that is adapted to simultaneously broadcast signals having frequencies in the range of about 300 MHz to about 3,000 MHz from two or more satellite sources traveling on a substantially...
- 7079827 **Method and apparatus for power control in an ultra wideband impulse radio system**
A method for power control in an ultra wideband impulse radio system includes: (a) transmitting an impulse radio signal from a first transceiver; (b) receiving the impulse radio signal at a second transceiver; (c) determining at least one performance measurement of the received impulse radio...
- 6240098 **Method and device for space division multiplexing of radio signals...**
A method and apparatus for spatial multiplexing and demultiplexing of radio signals. A multichannel transmitter and receiver is integrated in a base station and coupled to an antenna array. Using digital radio signals containin previously known or non-Gaussian sequences and arranged in frames,...
- 6198857 **Add/drop optical multiplexing device**
a multi-cavity interference filter, which is transparent to a wavelength sub-range within the
- 5319673 **Radio frequency broadcasting systems and methods using two low-cost...**
fading and foliage attenuation and thereby permits the use of a low-cost space segment.